

What is claimed is:

1. An apparatus for guiding a location of the other party in a navigation system, comprising:

5 a GPS receiver for receiving location data from a plurality of GPS satellites;

a storage means for storing a map data;

a display means for displaying the stored map data and location information of the other party on a screen;

10 a voice processing means for processing a voice signal and outputting the processed voice signal;

an input means for inputting a variety of key signals and requesting a location information of the other party's moving object;

15 a wireless communication means for requesting the location information of the other party's moving object to a traffic information center and receiving the request result; and

a control means for controlling each means, controlling a location information message of the other party's moving object to be transmitted to the wireless communication means, and
20 controlling the location information of the other party's moving object to be displayed from the received location information message.

2. The apparatus according to claim 1, wherein the control means processes the location information of the other party's moving object, received from the wireless communication means, to simultaneously output the location of the other party's moving object to the display means and the voice processing unit.

3. A system for guiding a location of the other party's moving object in a navigation system, the system comprising:

a navigation system installed in a moving object, for displaying a current location and traveling route by using location data received from a plurality of GPS satellites and map data stored in a storage medium, requesting a location information of the other party's moving object, and displaying the received location information on a map information;

a traffic information center for receiving a location information request message of the other party's moving object requested by the navigation system, checking a location information sharing of the other party's moving object, tracking a location information of a navigation system whose location information is shared, and transmitting the tracked location information to the navigation system; and

a mobile communication network for performing a mobile communication of the navigation system.

4. The system according to claim 3, wherein the navigation system requests location information on a plurality of moving objects, matches the received location information on the plurality of moving objects with the map information, and
5 displays the matched information.

5. The system according to claim 3, wherein the other party's moving object is a navigation system installed in a corresponding moving object or a mobile terminal carried by a
10 user of the other party's moving object.

6. The system according to claim 3, wherein the navigation system informs the user of the location information of the other party's moving object in a voice.
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7. A method for guiding a location of the other party's moving object in a navigation system, comprising the steps of:

(a) selecting an identification information of the other party's navigation system in a user's navigation system, and
20 transmitting a location information request message on the other party's moving object;

(b) receiving the location information request message of the other party's moving object at a traffic information center,

tracking a location information of the other party's moving object, and transmitting the tracked location information message of the other party's moving object; and

5 (c) receiving the location information message of the other party's moving object at the user's navigation system, matching the location of the other party's moving object with a map information, and display the matched information.

8. The method according to claim 7, wherein after the
10 step (c), the location information of the other party's moving object is periodically updated and reflected on the currently displayed map information.

9. The method according to claim 7, further comprising,
15 after the step (c), the steps of:

requesting a traveling route which sets the location of the other party's moving object, displayed on the map information, as a target route; and

20 matching the location of the other party's moving object and a current location with the map information to provide the shortest traveling route therebetween.

10. The method according to claim 7, wherein the location

information request message includes a telephone number of the navigation system installed in the other party's moving object, a subscriber information and a transmission location.

5 11. The method according to claim 7, wherein the location information reception message includes a location information of the navigation system installed in the other party's moving object, a recipient information and a map information.

10 12. The method according to claim 7, wherein the location information request and reception messages on the other party's moving object are short message service (SMS).

15 13. The method according to claim 7, wherein the step (b) includes the steps of:

receiving the location information request message of the other party's moving object through a mobile communication network;

20 extracting a telephone number of the navigation system contained in the received location information request message and checking whether or not the telephone number is registered as a location information sharing;

if the telephone number is registered as the location

information sharing, tracking the location information of the other party's navigation system through the mobile communication network and storing the tracked location information of the other party's navigation system; and

5 transmitting the stored location information of the other party's navigation system through the mobile communication network to the navigation system that requests the location information.

10 14. A method for guiding a location of the other party's moving object in a navigation system, comprising the steps of:

 (d) selecting respective identification information of the other party's navigation systems in a user's navigation system, and transmitting location information request messages on the
15 other party's moving objects;

 (b) receiving the location information request messages of the other party's moving objects at a traffic information center, tracking location information of the other party's moving objects, and transmitting the tracked location information messages of the
20 other party's moving objects; and

 (c) receiving the location information messages of the other party's moving objects at the user's navigation system, matching the locations of the other party's moving objects with a

map information, and display the matched information.

15. The method according to claim 14, wherein the location
information request message includes telephone numbers of the
5 navigation systems, information on user who requests the location
information, and a current transmission location.

16. The method according to claim 14, wherein the location
information reception message includes location information of
10 the navigation systems, recipient information and map information
corresponding to the location information.

17. The method according to claim 14, wherein if the
location information message is received the traffic information
15 center, a magnification of a current map information is adjusted
in order to display all locations of the other party's moving
objects contained in the location information message, matching
all location information of the other party's moving objects and
displaying the matched information.

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18. The method according to claim 17, wherein the location
information of the other party's moving objects is periodically
updated and the magnification of the map information is re-

adjusted centering on the updated location information of the other party's moving objects.